



User Manual

EC-1530

All-in-one Touch POS Terminal

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Chapter I: Overview

Dear customer:

Thank you for purchasing the EC Line All - In One touch POS devices, we are committed to continuously improve the product quality and provide better after-sales service. In order to take full advantage of our devices, we strongly recommend that you take the time to read this manual before diving into software solution.

1.1 The Structure of the Manual

This manual is divided into parts and chapters in order to help you better focus on the key topics.

You are not required to have prior knowledge of any point of sale to use this manual. This Manual contains an overview of the installation guide, instructions for use, Common Faults and exclusion, the main technical indicators content and the product warranty commitments. You can access to appropriate help by browse the topics upon your need.

1.2. Safety Information :

- This product is in full compliance with the relevant requirements of the national standard GB/4943-2001 IT equipment security.
- Before plug in the product, please make sure the power you provide meets the power requirements (such as voltage, frequency); please make sure the ground terminal of the power outlet is working normally.
- Lightning may damage this product or even your personal safety, during lightning storms; unplug the network cable, power cable and any other connections.

- Turn off the power before connecting any devices (except USB device) to the terminal.
- Do not attempt to open the chassis .You may be hurt by electric shock.For service,call your place of purchase.
- Please do not leave any item or liquid into the product, do not place any objects into the ventilation holes of this product, it may cause short-circuit of the internal components and cause a fire or electric shock.
- In accordance with the relevant explanation in national standards GB/T9813-2000 microcomputers general specification. After the computer is below the temperature of 10 ° C of environment storage, please place the machine in room temperature (10-35 ° C) conditions for more than two hours to avoid damage from low temperature. In the meantime please do not remove the packaging and allow the computer to restore the natural temperature, and avoid heating up too fast to cause the computer to generate the occurrence of frost and condensation that might bring electrical damage.
- Strict compliance with the electrical appliance standard;
- Safe use voltage range: 100V ~ 240V & 50Hz/60Hz;
- Verify that the power outlet is available to connect to a reliable ground;
- Keep the device clean, dry, away from dust, moisture and direct sunlight;
- Do not share the same power outlet with high-power electrical appliances, keep distance from high level magnetic interference;
- Turn off the POS machine after use to extend using life;
- Do not the use sharp points, draw, cut the touch screen to ensure the normal use of it;
- Before plug / unplug the communication cable or connect to an external device, please turn off the power supply;
- Non-professional and technical personnel is not allowed to open the machine, otherwise take upon the consequences;

When the following occurs:

- Liquid penetrate into the body of POS machines
- POS machines accidental damage
- POS machines produces a burning smell
- POS machines shows sudden abnormal

Immediately disconnect the cash register power supply, unplug the power cord, and immediately contact a qualified service technician to deal with.

1.3 Electromagnetic compatibility statement:

- This product is in full compliance with the relevant requirements of the national standards (GB/9254-1998) “The limits and measurement methods of radio disturbance characteristics of information technology equipment” for Class B products.
- This product is in full compliance with the relevant requirements of the the People's Republic of China's national standards of (GB/17625.1-2003) “Electromagnetic Compatibility Limits for harmonic current emission limits” for Class B products .

Chapter II: Installation Guide

2.1 EC-1530 Appearances: (MSR and VFD mounting optional)



2.2 The rear panel I/O signs and description:

AT the rear panel of the POS device you will see a row of the external device connection interface, such as: power outlet, the parallel connector, serial socket, USB interface, detailed as follows:



POWER key: turn on/off the pos

MOUSE: To connect mouse device

KB: To connect the keyboard device

LPT: 25DB parallel port, external printing, or other communications equipment

VGA: VGA signal output interface

COM 1.3.4.5.6: External serial devices, such as mouse, fax machines, printers, equipment, etc.

USB: USB interface to connect a USB device

LAN1: Connect RJ-45 connector to 100M/ bps LAN interface, enable the device be connected to the Internet

LAN2: Connect RJ-45 connector to 1000M/ bps LAN interface, enable the device be connected to the Internet

LINE out: Sound output to other audio equipment

MIC IN: Microphone voice input

12V DC in: power supply for pos

12V DC out: 12V DC output to other device

EC-1530 series of products using the manual handle design which is able to be adjusted within the range of 0 degrees to 90 degrees, the operation is more humane.

Chapter III: Instructions for use

3.1 Motherboard BIOS settings:

The POS device has a BIOS (Basic Input Output System) chip on the motherboard. Every time you start the POS devices, the system will first run the BIOS self - test program, to check the main components of the system to ensure it is working properly.

The newly assembled POS devices must process the BIOS settings to inform the entire system configuration of the POS device, so your POS device had done the BIOS settings in the factory, please do not change the parameters in the BIOS to avoid system exception if there is no special need.

In the following situations, you need to run the BIOS setup program:

1, Error message appears on the screen during the system self-test, and requested to enter the BIOS setup program.

a. Press F1 to run setup

b. Press F2 to load default values and continue

2, When the self - test does not appear the information above, if you want to change the factory default settings based on customer characteristics, boot by DEL to enter the BIOS interface. If the message disappears before you respond to, you can turn off the machine or press the Reset button on the front panel, and restart the computer, you can also press the <Ctrl> + <Alt> + to restart.

When The POS device is booting, the BIOS runs the self - test program, the self-test program is a series of diagnostic procedures fixed in the BIOS, when the self-test program execution is completed, showing the following information:

Press DEL to enter setup (press DEL> key to enter the BIOS setup).

If the message disappears before you respond to, you can turn off the machine or press the Reset button on the front panel, and restart the computer, you can also press the <Ctrl> + <Alt> + to restart.

Control keys

<↑> Move up

<↓> Move down

<←> Move left

<→> Move right

<Enter> To select this option

<Esc> To exit the menu or to return to the main menu from the submenu

<+/PU> Increase the value or change selection

<-/PD> Reduce the value or change selection

<F1> Help, only available in the status menu and select templates menu

- <F7> To load the last set of values
- <F8> To load the safest value
- <F9> To load the optimal value
- <F10> To store settings and exit the CMOS SETUP program

Step 1: Select Load Default Settings to restore optimized default settings

CMOS Setup Utility- copyright (c)1985-2008

BIOS Setup Utility- copyright (c)1985-2008		
Main		
Advanced		
chipset		
Boot		
Security		
Save&Exit		
↑↓→←:Move +/-:Value Enter:Select F10:Save and Exit		
F1: General Help F9: Load Ddfault Settings Esc:Exit		

Step 2: Select “main “

Standard CMOS Features

Bios information		Item Help
BIOS Vendor	American megatrends	While entering setup BIOS auto detects the Presence of SATA Device.This displays The status of auto Detection of SATA devices
Core Version	4.6.4.0	
Complieny	UEFI Z.0	
Project Version	PT00C000X64	
Built Date andTime	11/24/2011/ 14:29:44	
	Not detected	
System (hh:mm:ss)	time 11 : 33 : 23	
System (mm:dd:yy)	date Tue 01/01/2012	
Access Level	Eglish	
	Administrator	

↑ ↓ → ← : Move +/-:Value Enter : select F10:Save and Exit
F9 : load Defaults Settings F1:General Help Esc : Exit

Step 3: Select the Advanced settings

WARNING: setting wrong values in the below sections may cause system to Malfunction

Advanced setup

CPU Configuration	
IDE Configuration	Configure CPU
USB Configuration	
COM/LPT Configuration	
Hardware monitor	
Power management	

↑ ↓ → ←: Move +/-:Value Enter : select F10:Save and Exit
F9 : load Defaults Settings F1:General Help Esc : Exit

Step 4: Select Boot

Boot Configuration	
Bootup NumLock State	On
Display Logo	Dislabled
Boot Option Priorities	
BOOT OPTION	SATA:ST3800...
Hard Drive BBS Priorities	

↑ ↓ → ←: Move +/-:Value Enter : select F10:Save and Exit
F9 : load Defaults Settings F1:General Help Esc : Exit

Step 5: Select the menu item Security

Supervision Password:Not installed	Help Item	
User Passwrod :Not Installed		
Change Supervisor Password	Install change password	or e
Change User Password		
Clear User Password		
Boot Setor Virus Protection		
Flash Write Protection		
	Dislabled	
	Enabled	

Step 6: Select the menu unit exit

North Bridge Configuration Memory Frequency 800MHZ		Help Ttem
Total Memory 2048MB Share Memory Size 8MB DVMT Mode Select DVMT Mode DVMT/FIXED Memory 256MB South Bridge Configuration HD Audio controller Enabled USB Function Enabled On board LAN2 Controller Auto LAN Boot Rom Disabled		Configure North Bridge features

↑ ↓ → ←: Move +/-:Value Enter : select F10:Save and Exit
F9 : load Defaults Settings F1:General Help Esc : Exit

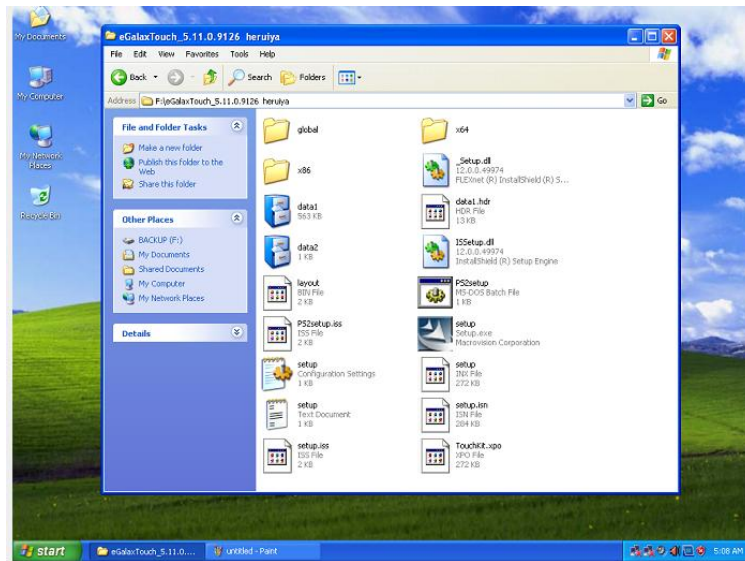
Step7: Select the Save& exit

Exit option	Item Specific Help
Save Change and Exit Discard Change and Exit Discard Change Load Optimal Default	Exit system setup with

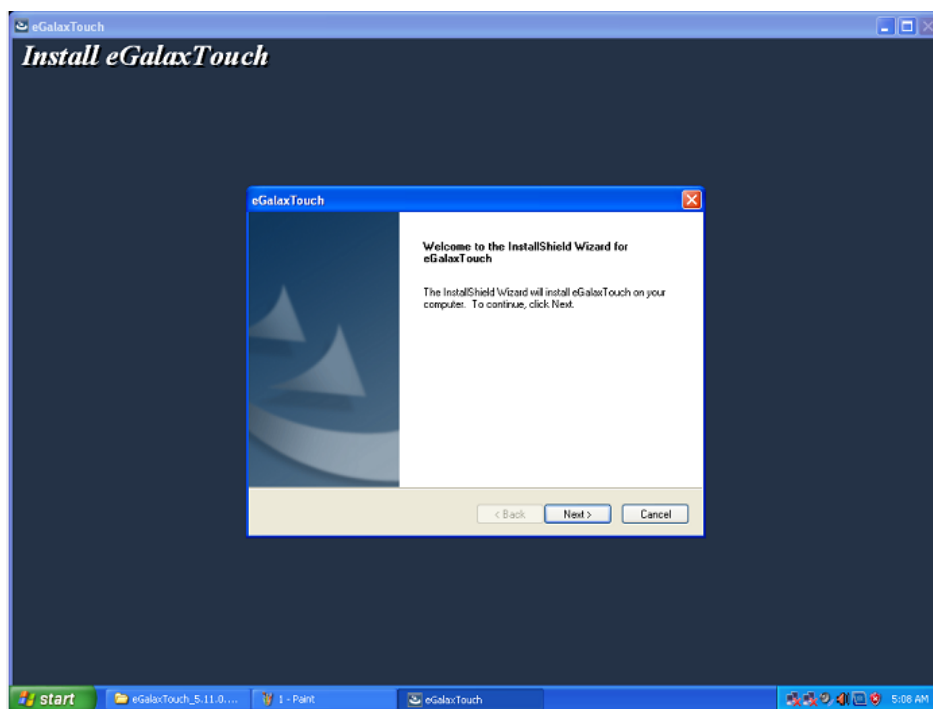
↑ ↓ → ←: Move +/-:Value Enter : select F10:Save and Exit
F9 : load Defaults Settings F1:General Help Esc : Exit

3.2 Touch screen driver installation:

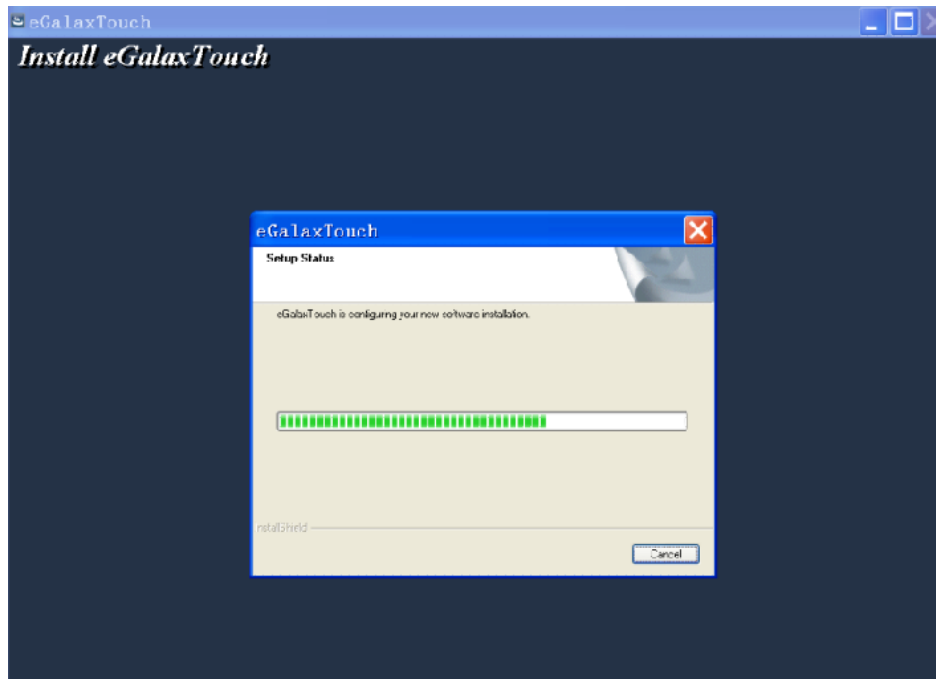
Step 1: Open the installer directory to find the setup.exe file, double-click the installation, when apply CD-ROM installation, the path is shown below.



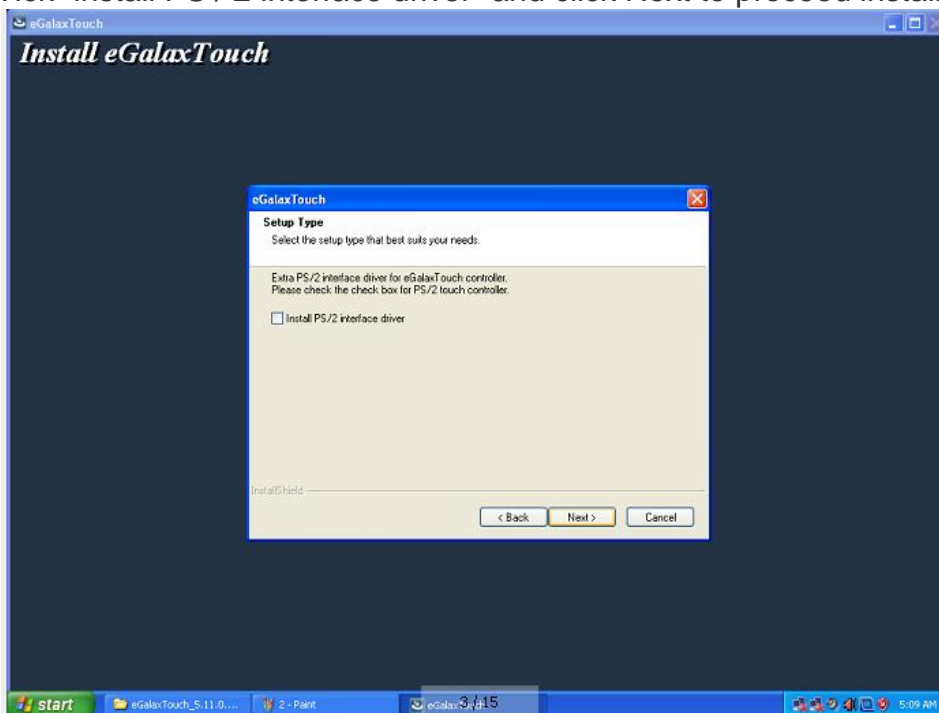
Step 2: Double-click the installation as the following figure shows, click Next to proceed to the next installation.



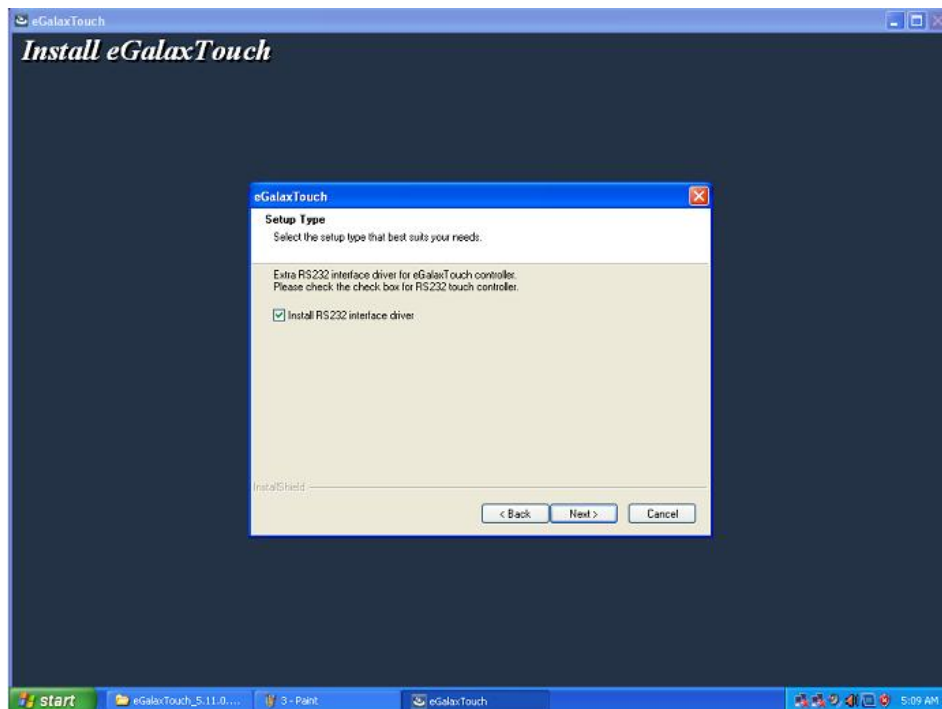
Step 3: Install In progress



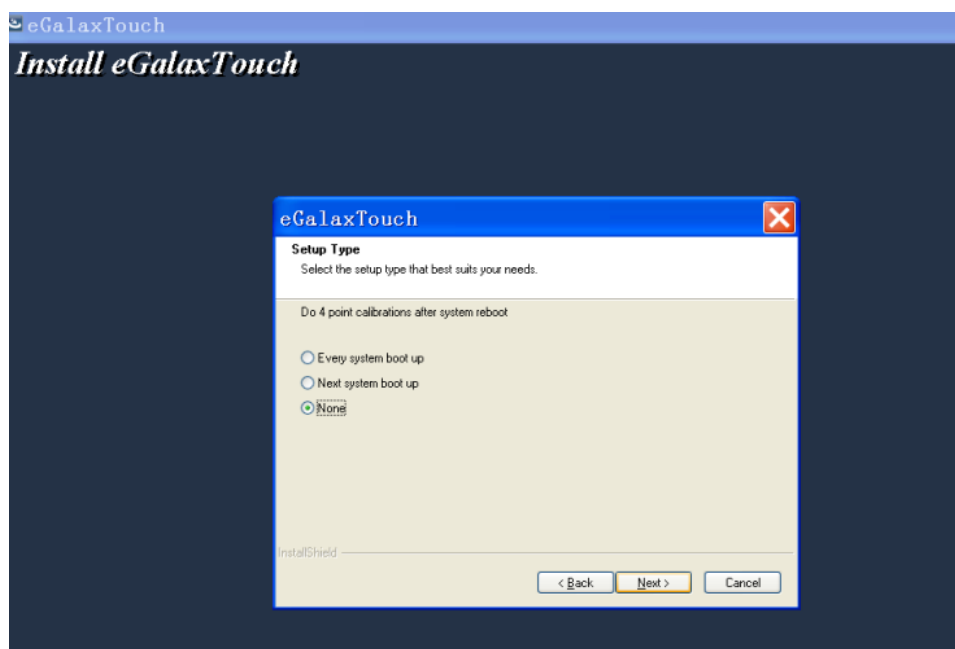
Step 4: Tick “install PS / 2 interface driver” and click Next to proceed installation.



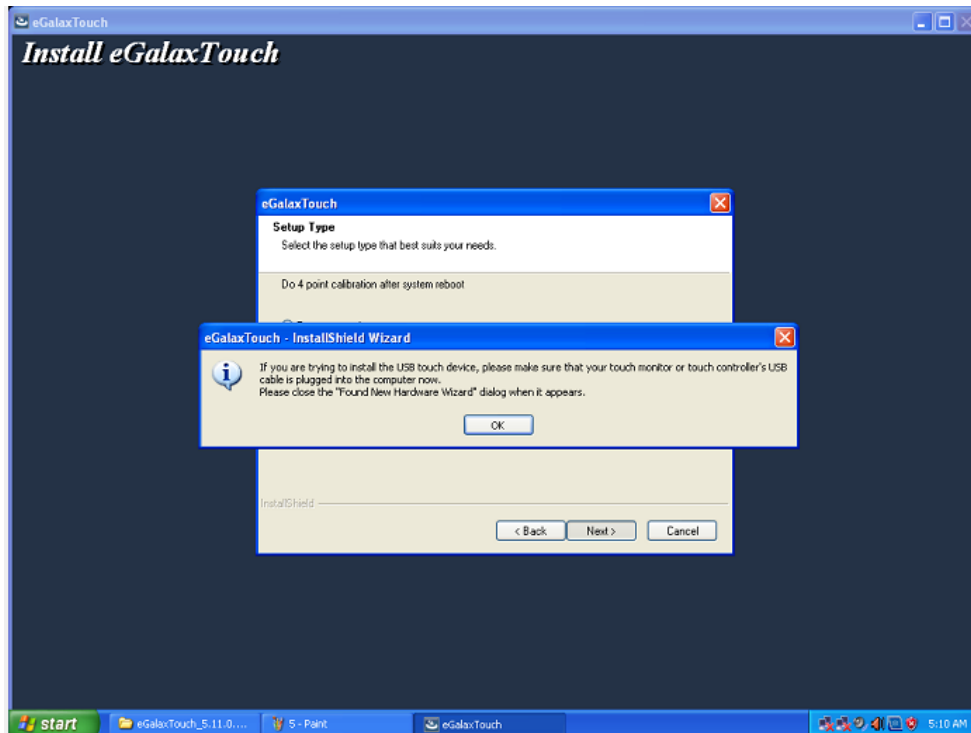
Step 5: If the touch interface is RS232, tick “install RS232 interface driver” and click Next to proceed installation.



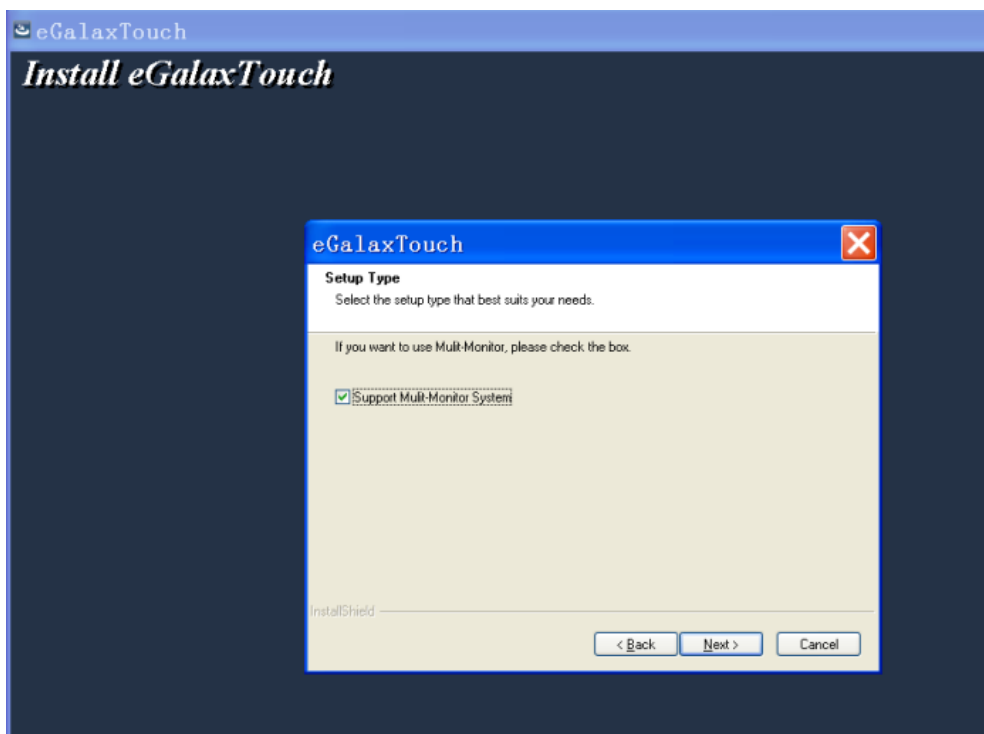
Step 6: When choosing the calibrations, select NONE, click Next to proceed installation.



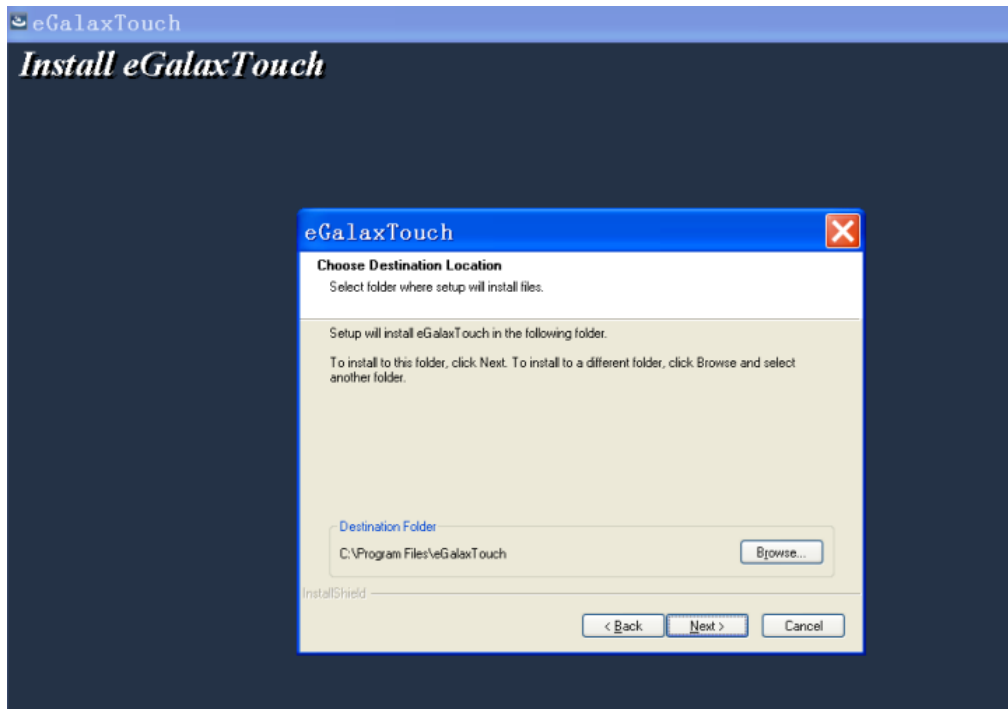
Step 7: When installing USB touch, please connect the USB controller and USB cable



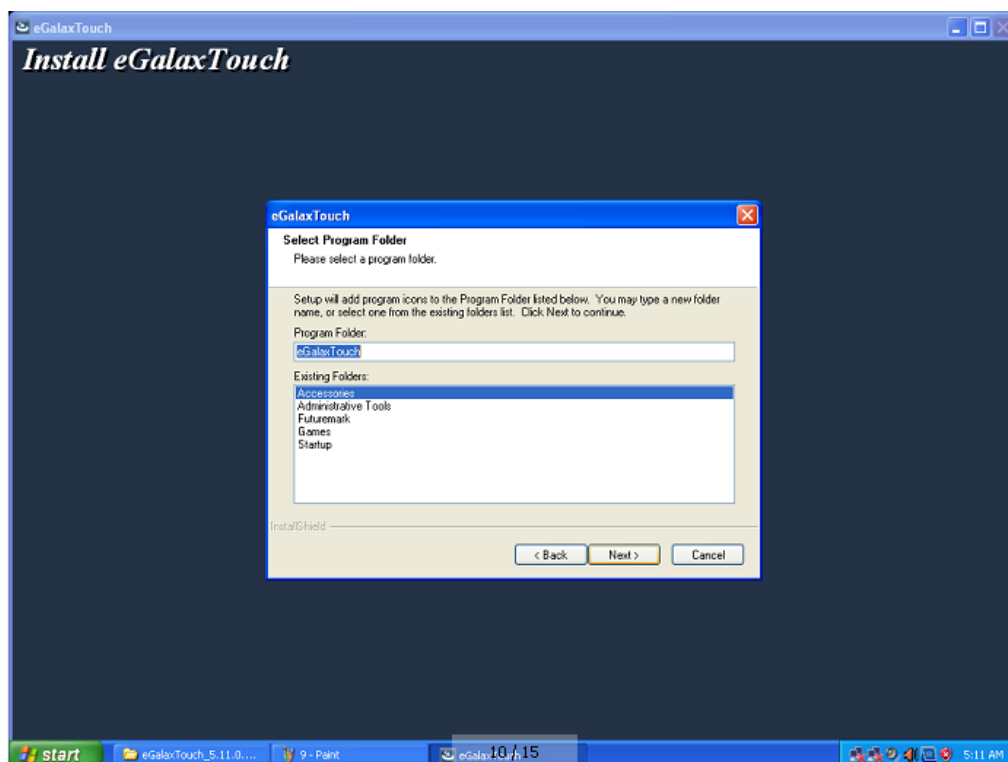
Step 8: When there are two or more touch screen, please tick “Support multi-monitor system”.



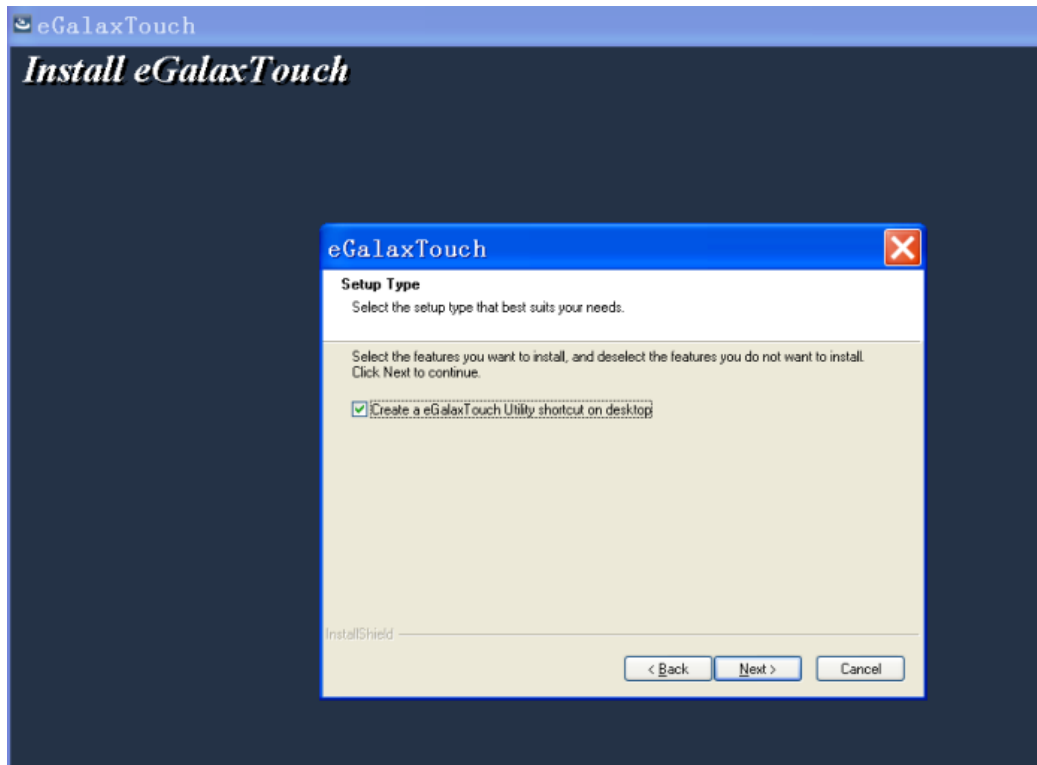
Step 9: Select the destination location to store the driver, the default path is C: \ Program Files \ eGalaxtouch; we use the default path here, click Next to proceed to installation.



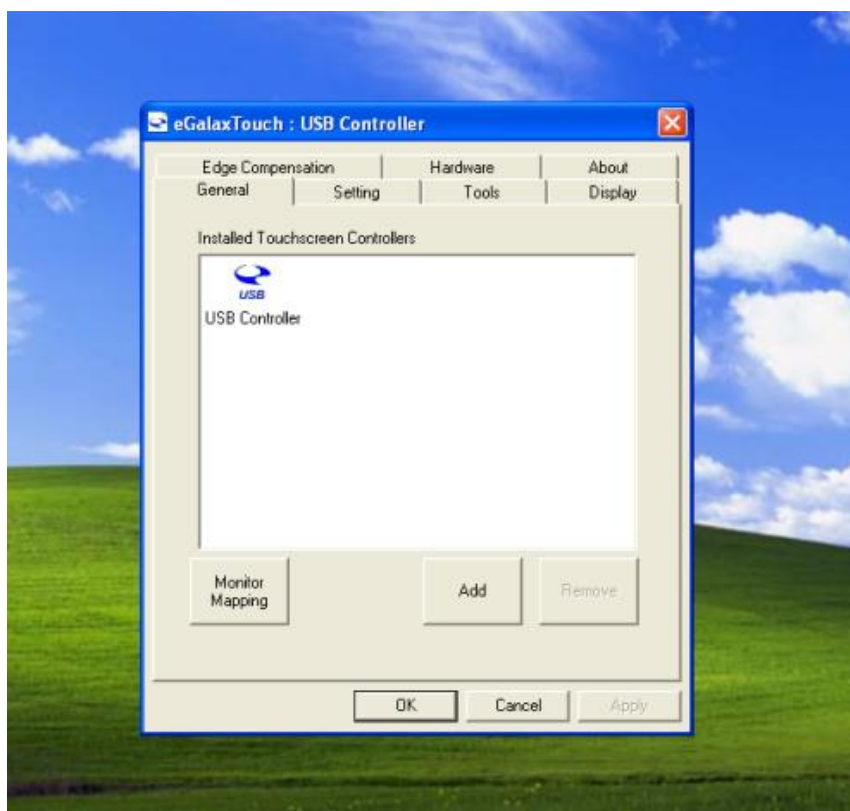
Click Next to proceed to installation

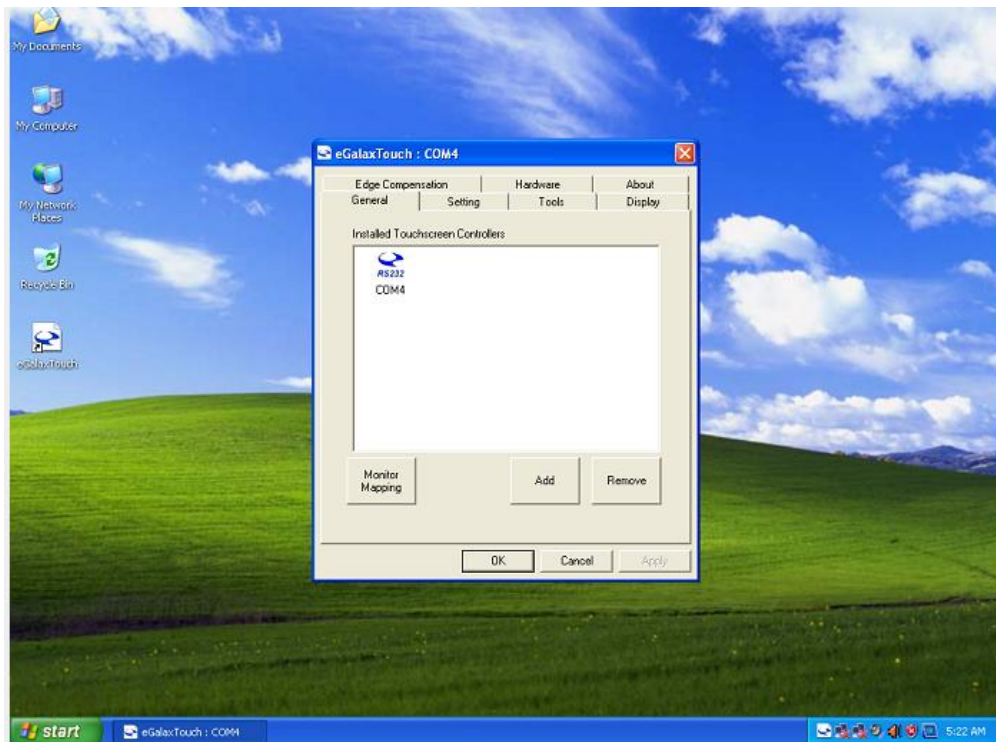


Step 10: Check the projects to create a desktop shortcut icon in the following figure

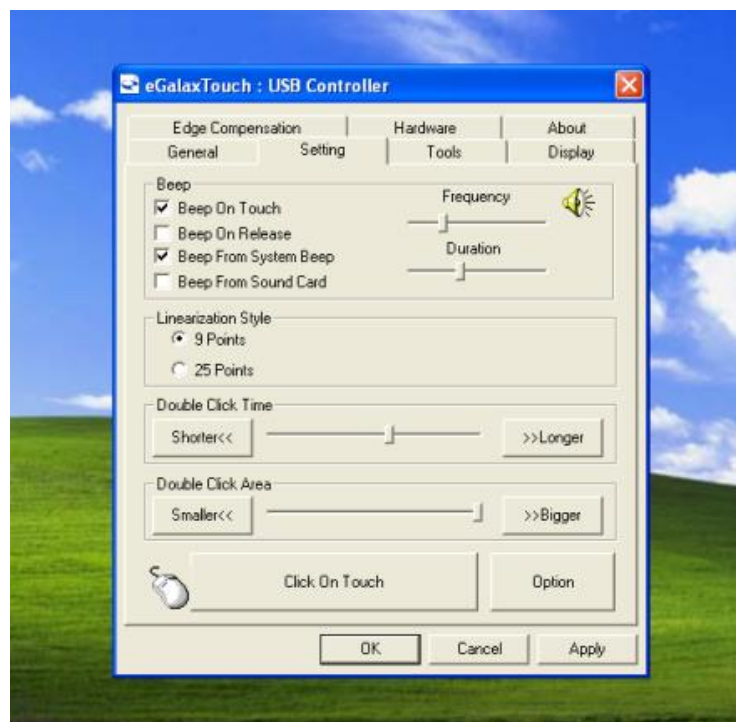


After install the driver successfully, identify the USB controller card and RS232 control card as the following two figures shows.

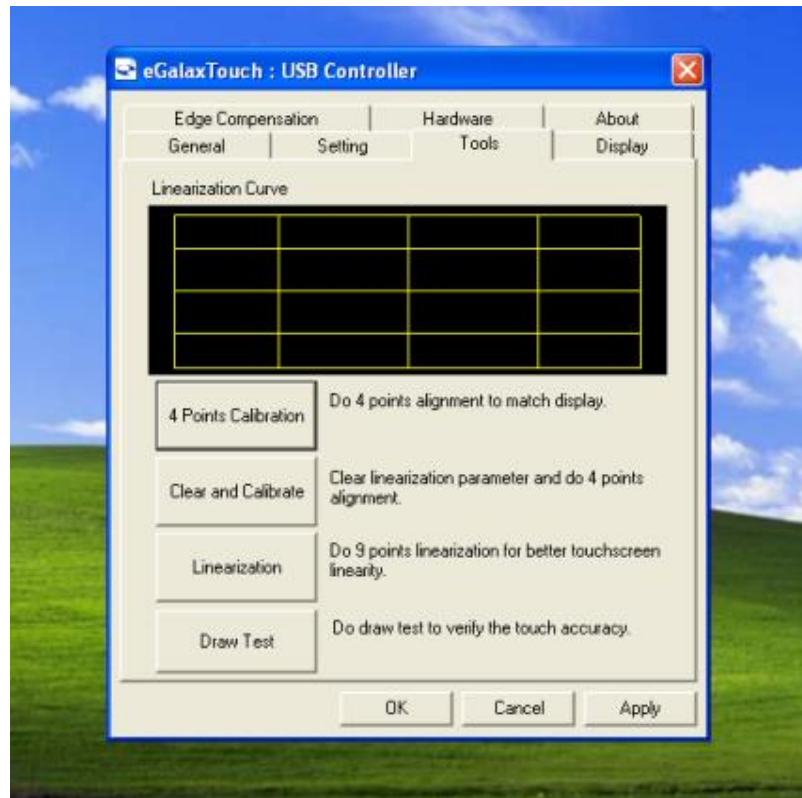




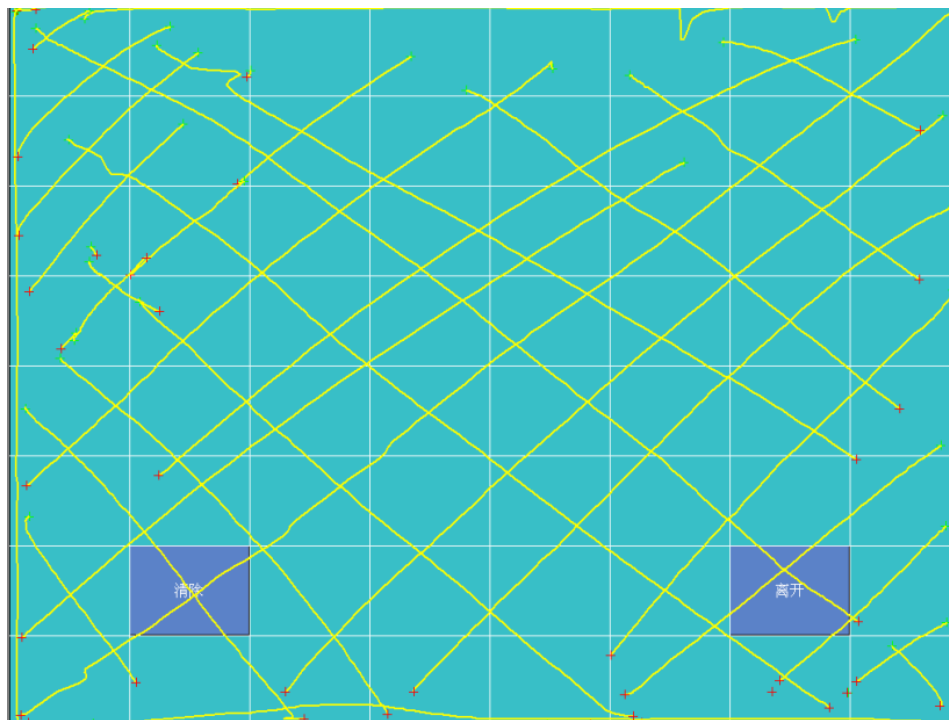
Related touch function setting



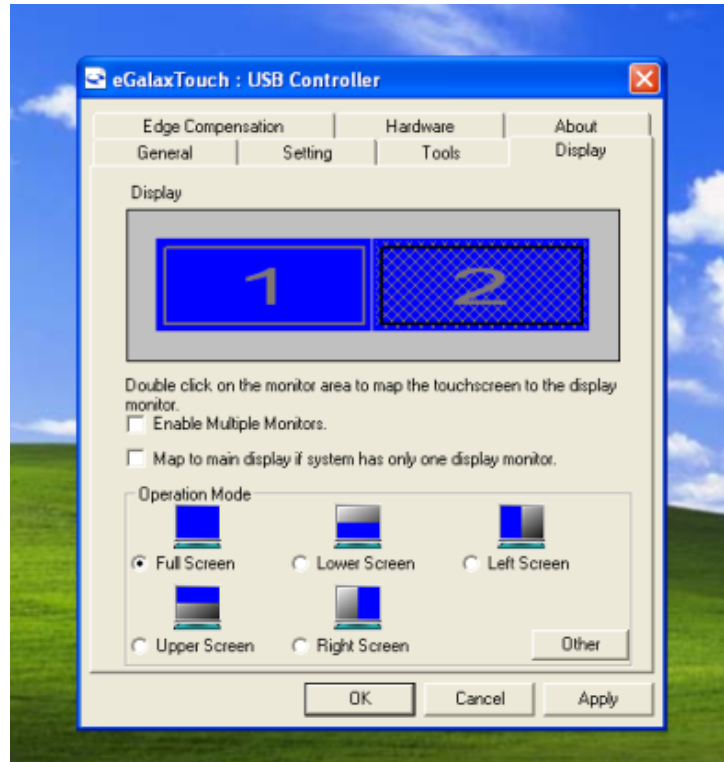
Touch calibration



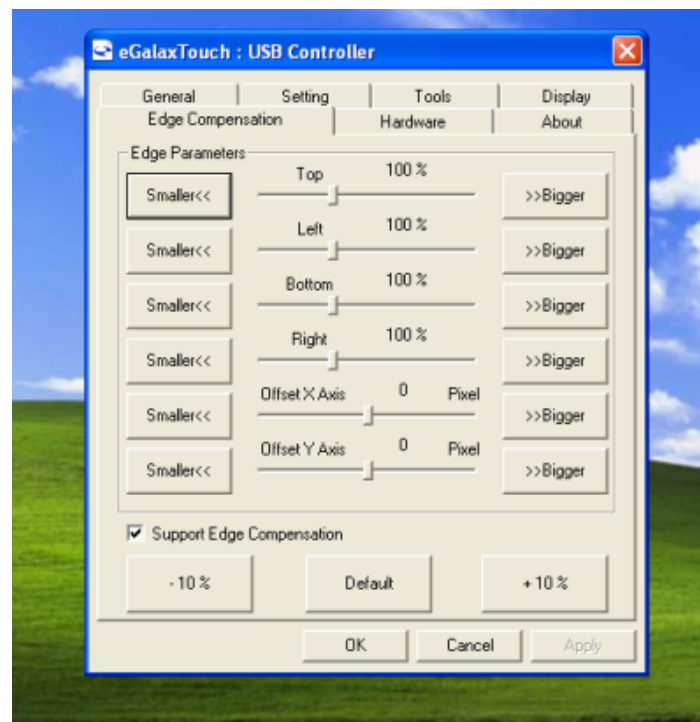
Touch device line test



Touch screen setting



Touch device edge correction setting



Touch device hardware information display



Chapter IV: Common Faults and exclusion

1. POS device does not boot

If the POS devices cannot boot after repeated pressing of the power switch (POWER) when connect to the power, the POS device power light remains off, the fan does not operate, and the BIOS beeping is not heard. Generally if any statue above appears, it might be POS devices Power supply problems;

(1) Check the power adapter is plugged, power light indicates the power connection, if the light is off, the adapter might be damaged or in protection. Check the power outlet and make sure it is 220v power supply, if the adapter is in power protection mode, please re-plug the adapter.

(2) Check the connection between the POS device and the power adapter, and then re-boot the machine;

(3) The using environment of the POS device (such as: high temperature) causes the POS device automatically shut down in protection mode, please disconnect the power of the machine to improve the internal environment;

4) If the POS device does not boot after a sudden power failure or illegal shutdown, unplug the adapter from the POS device, and press the power button (POWER) for several times, then plug the adapter and boot again.

(5) If the adapter light blinks or goes off, unplug the adapter immediately and do not plug it in again, then contact with our products service center.

2. No display after start up

When the POS normal boots, you will hear the BIOS beeping and the sound of the entering theme, if the display remains in blank screen, the LCD switch might not be off, switch the LCD on.

3. The POS device automatically restart (or shutdown)

If POS device is frequently automatic shutdown or auto-boot in operating (or just start up),

(1) Check the power supply is connected normally; make sure the plug is not loose and contacts are in good condition;

(2) Check the AC 220V is stable;

(3) Virus may cause this problem if the hardware parts are normal, immediately antivirus to restore the system.

(4) A sudden power failure or illegal shutdown may cause this problem, press F8 to use safe mode to enter the system and debug.

(5) If you added or replaced any hardware or an external device to occur this problem, recover the hardware or remove it.

(6) If the above steps do not resolve this problem, reinstall the operating system.

4. POS device is not available to access internet (slow response)

(1) Make sure the external network cable is well connected;

(2) Check if the green light is on and the orange light blinks at the internet port while the POS device is working. If not, there might be the external cable problems, please re-check the external network cable is connected;

(3) Check the network connection icon in the Toolbar, if the icon cannot be found, so network card driver might not be installed properly, reinstall the driver (according to

the driver installation instructions ");

(4) Check the IP address is set correctly (according to the "Driver Installation Instructions"), If you do not know how to. Please apply "Obtain an IP address automatically".

(5) Not available to access internet or the network speed is very slow, it may be too many pages opened or affected by viruses, so please clean the virus immediately.

5. Mouse or keyboard is not working.

Restart the POS device after connecting mouse and keyboard, or may cause abnormal use or crash phenomenon to the mouse and keyboard.

(1) Check the mouse and keyboard are normal; replace the damaged ones;

(2) Check the drivers of mouse and keyboard are correctly installed, if not, reinstall the driver. See "the motherboard driver installation".

6. The touch screen does not respond

When the touch POS device does not has any reaction;

1.Remove the touch driver and then install it again Remove the touch driver and then install it again.

2. Execute the "eGalaxTouch on the desktop, check if the COM Port is normally.

3. Disconnect the touch cable from COM port, and plug in other RS-232C devices to confirm if the COM port is working correctly.

4. Check the touch flat 5P cable, which is connected the touch panel and touch control board.

5. The touch panel and touch control board themselves may be defective. In this case, need to replace these defective components.

7. When touch the screen of POS device, the cursor pulse in a fixed position.

(1) Check the cursor if there is anything suppressing on the touch screen;

(2) The power supply or other high frequency equipment affect the screen or controller, make sure that the touch screen is away from the high-voltage equipment;

(3) The touch screen driver is not installed correctly, install the driver (please refer to the "Touch Screen Setup") and run a 25-point calibration.

8. Touch screen is not accurate

Please run the touch screen calibration program with a 25-point recalibration, we

also recommend you to do this after change the monitor resolution or refresh rate. When running the calibration, press the center of calibration point to avoid inaccuracy.

9. The cursor moves opposite to the touch movement

- (1) Please run the 4/9/25 point calibration;
- (2) The touch screen driver is not installed properly, reinstall the driver.

10. The cursor fixed at the edge of LCD, or pulse in a fixed position

- (1) The touch region of the screen has been suppressed by something.
- (2) Check the edges of the LCD if there is anything inserted in or the front frame is being squeezed;
- (3) Make sure the touch screen is clean without anything pasted on.
- (4) If the above steps do not solve the problem, please contact the products and services center in our company.

11. The cursor in the touch screen can only move in a small area or resistive touch screens are inaccurate.

- (1) This situation usually occurs in the first time installing the driver, please run the touch screen calibration program. We also recommend you to do this after change the monitor resolution (Start - Programs);
- (2) Run the touch screen calibration program to do a 25-point recalibration.

12. POS display is not clear or water ripples appears

- (1) Re-set in the display properties
- (2) The screen display resolution is set in the best condition (1024 * 768);
- (3) Power supply or other high frequency devices affect the screen or machine; keep the distance between the POS device and the high frequency devices.

13. Can not connect to the printer

- (1) Make sure the printer is normal;
- (2) Check the printer and POS devices are connected;
- (3) Check the driver of printer is installed;
- (4) Try to find the printer hardware in the POS device properties, if found, please re-install the correct printer driver;
- (5) In the POS device properties if the printer hardware is not found, please re-check printers and POS device is connected and the printer is available.
- (6) If the above steps do not resolve this problem can only reinstall the operating system.

14. USB external device can not be used

- (1) Check the external USB device is normal;
- (2) Check the BIOS USB2.0J is enabled;
- (3) The cable of USB external device should not be too long. Otherwise, the USB device can not be found due to the insufficient supply;
- (4) Re-install the USB driver (see "motherboard driver installation").